

## ABSTRACT

Disclosed is a grid polarizer comprising a substrate; and a plurality of stacked metal and dielectric layers, having a width  $w$ , disposed on the substrate and forming a parallel grid of stacked layers. The stacked layers are spaced apart to form a repetition space between the stacked layers, such that no diffraction orders are allowed to propagate except the zero order. The grid polarizer that is capable of transmitting substantially all illumination of a given polarization while suppressing at least of portion of the illumination reflected due to an orthogonal polarization component.